

Title (en)

Automatic control process of the quality of a car body component.

Title (de)

Verfahren zur automatischen Qualitätskontrolle eines Karosseriebauteils.

Title (fr)

Procédé pour le contrôle automatique de la qualité d'un composant de carrosserie automobile.

Publication

EP 0453433 A2 19911023 (FR)

Application

EP 91870063 A 19910415

Priority

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Abstract (en)

There is determined in succession an approximate form, and then the actual geometrical form of the component, and this actual geometrical form is compared with the geometrical form of a reference component. Local deformations of the component are measured, for example by optical examination of its surface. The surface roughness of the component is then measured and at least one roughness profile of this surface is prepared. Next, the internal soundness, in particular the degree of porosity, of the component, and also its thickness, are determined, preferably by ultrasound examination. The results of these measurements are compared with reference values corresponding to the reference component. The results of this comparison are analysed and any deviations which may be discovered are corrected by adjustments to the component's forming process.

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